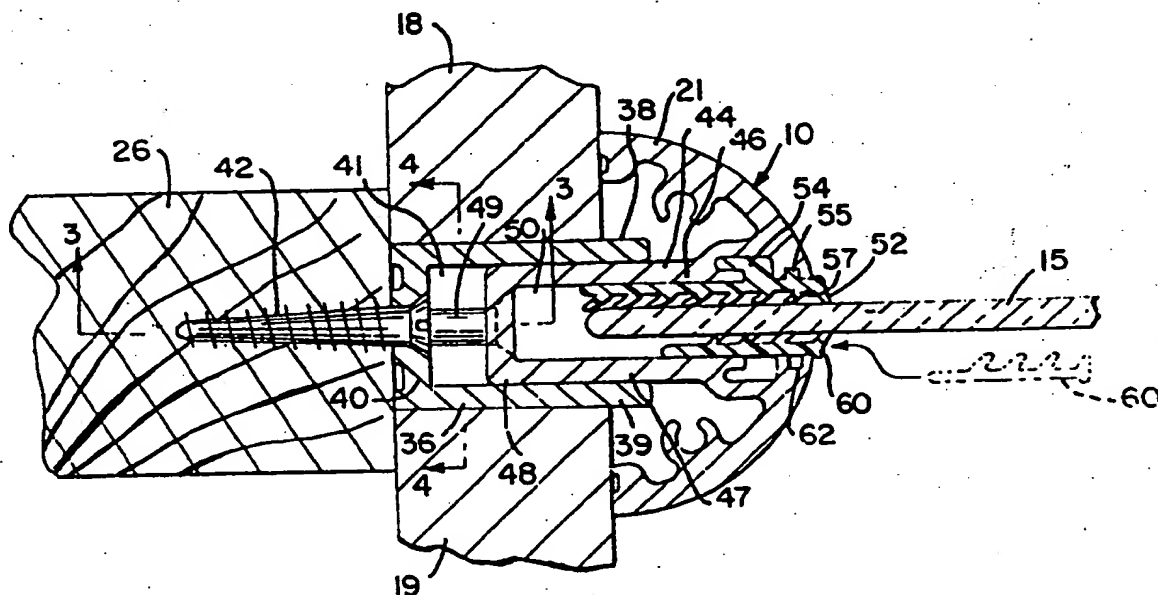




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(54) Title: **ADJUSTABLE WALL JAMB**

(57) Abstract

An adjustable wall jamb (10) is disclosed which can compensate for a variety of variations in wall structures when fitting a panel member thereto. One adjustable wall jamb is for a shower enclosure and affords a channel (50) into which a portion of the wall panel (15) is sealed, and thus provides a "floating" type seal without contacting an end of the adjustable wall jamb. The adjustable wall jamb is formed as a support post and is telescopically fitted into a stud jamb (36). In an alternative embodiment, there is a one-piece adjustable wall jamb (70) having securing flanges (81, 82) and sealing fingers (83) formed as a one-piece unit. This can be utilized in conjunction with the square fitting of a panel to a wall, a corner construction, or an angled construction.

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ADJUSTABLE WALL JAMB

Background Of The InventionA. Field Of The Invention

5 This invention relates primarily to devices for securing panels to walls. More particularly, the invention relates to wall jambs for connecting shower wall panels to support walls.

B. Description Of The Art

10 The securing of wall panels to support walls poses many problems. For example, in many instances the support wall is not plumb. In addition, wall finish thickness can vary from 3/4 inch to in excess of 1 1/2 inches. In connection with walls for bathing facilities, there is the additional problem of providing a water tight seal. Still other
15 problems arise when attempting to make final adjustments of the panel in the wall jamb given that glass can easily be scratched.

20 There is currently available an adjustable wall jamb for bathing fixture panels. This is described in U.S. patent 4,453,346. While this adjustable wall jamb works well from a sealing and adjustment standpoint, there is a need for an improved wall jamb.

Summary Of The Invention

25 In one aspect, the invention provides an adjustable wall jamb for mounting a panel member wherein a first member

channel portion adapted for receiving the panel. A sealing member having resilient fingers is adapted to be inserted between the panel and a first inside wall surface of the channel portion. There is also a wedging member adapted for insertion between the panel and a second inside wall surface of the channel portion opposite the first inside wall surface. Accordingly, when the jamb is assembled, the fingers can resiliently bias the panel towards the wedging member.

In a preferred embodiment, the wedging member also includes resilient fingers, and the first member and a room wall can sandwich a second channel member so as to permit adjustment of the distance between the first member and the wall.

In another preferred embodiment, the sealing member and the wedging member also has finger elements.

In another aspect, a body member has a channel portion for reception of a section of a panel, and there is at least one flange member extending laterally from the body member, as well as a plurality of resilient sealing fingers extending in transverse fashion into the channel portion both of which are formed as one piece therewith. A combined wedging and sealing member is inserted between the panel and an inside wall surface of the channel portion.

In yet another preferred embodiment, there are two such flange members extending laterally from the body member that are positioned at essentially a right angle with respect to the body member.

is essentially U-shaped, and there are two such flange members extending laterally therefrom, and the flange members are positioned at a right angle with respect to each other.

In an additional embodiment, the body member is essentially U-shaped, and there are three flange members extending from the body member. The three flange members all extending from the body member at angles other than a right angle, and two of the flange members are positioned opposite each other.

The adjustable wall jambs of this invention afford various adjustments with respect to wall variations. At the same time, the adjustable wall jambs are easy to use from an adjustment standpoint.

The objects of the invention therefore include:

a. providing an adjustable wall jamb which can accommodate a wide variety of wall variations and configurations;

b. providing an adjustable wall jamb of the foregoing type which affords a tight water seal for a bathing fixture wall;

c. providing an adjustable wall jamb of the foregoing type which can be easily manufactured and used; and

d. providing an adjustable wall jamb of the foregoing type in which a sealing member affords an adjustment feature.

invention will be apparent from the description which follows. In the detailed description below, the preferred embodiments of the invention will be described in reference to the accompanying drawings. The embodiments do not represent the full scope of the invention. Rather the invention may be employed in other embodiments.

Brief Description Of The Drawings

Fig. 1 is a top front perspective view showing a bathing fixture which incorporates an embodiment of the adjustable wall jamb of the present invention;

Fig. 2 is a sectional view taken along line 2-2 of Fig. 1;

Fig. 3 is a sectional view taken along line 3-3 of Fig. 2;

Fig. 4 is a sectional view taken along line 4-4 of Fig. 2;

Fig. 5 is a sectional view taken along line 5-5 of Fig. 1;

Fig. 6 is a top plan view of a sealing member prior to use in the Fig. 5 construction;

Fig. 7 is a top plan view of a second embodiment;

Fig. 8 is a top plan view of a third embodiment; and

Fig. 9 is a view similar to Fig. 7, albeit a fourth embodiment.

Referring to Figs. 1 and 2, a bathing fixture (e.g. a shower enclosure), generally 12, is shown having side walls 14 and 15 connected to room walls 16-19 by the wall jambs 10 of this invention which in effect provide a support post. Intermediate posts 23 and 24 are connected at the opposite ends of side walls 14 and 15 with the curved door 30 pivotally attached to the post 23 by the hinges 31 and 32. There is also provided the handle 33 for door 30, as well as a receptor base 34.

Referring specifically to Fig. 2, it is seen that the adjustable wall jamb 10 includes a stud jamb or mounting member 36 positioned between walls 16 and having side walls 38 and 39 and a base wall 40 to provide a vertically extending cavity 41. A screw 42 is placed through the base wall 40 to secure the mounting member 36 to the wall stud 26.

The wall jamb 10 is formed from an aluminum extrusion 21 and has an inwardly projecting portion 44 having the side walls 46 and 47, as well as a base wall 48. This provides a channel 50 for the positioning of a portion of wall 15 therein. A first sealing member 52 has the flanges 54 and 55 secured in the wall post 21 by suitable accommodating slots. The seal 52 has a plurality of flexible fingers 57 for engagement with the wall 15 and is positioned at the "wet side" of the wall 15.

At the opposite side, there is a wedging seal member 60 which also has flexible fingers 62 for engagement with the

formed from coextrusions of flexible and rigid vinyl plastic materials such as a Geon 83457 and 87256 plastic from the B. F. Goodrich Co. The main body sections of seal 52 and
5 wedging member 60, which in the instance of seal 52 extend flanges 54 and 55 are formed from the rigid plastic, whereas the fingers 57 and 62 are formed from the flexible plastic.

Referring specifically to Figs. 3 and 4, it is seen that wall jamb 10 is attached to the wall stud 26 by the
10 screws 49. These pass through the adjustment slots 45 in the base wall 40 of the mounting member 36.

Fig. 5 shows the opposite end of the side wall 15 secured in the intermediate post 24. This is effected by the seal 64 having the flexible flanges 66 and 67
15 accommodated in suitable slots in the extruded post 24. The seal 64 has resilient fingers 57 for contact with the side wall 15, as well as an end portion 68 which acts as a protective cover for the end of the side wall 15. Previously described wedge 60 is also employed at the
20 opposite side of seal 64.

Referring specifically to Fig. 6, it is seen that the portion 67 of seal 64 assumes in a non-stressed state a generally pentagonal top view shape rather than a rectangular one as shown when jammed in post 24. This
25 affords a compression effect on the flange when placed in the post and accordingly holds the seal 64 therein.

Referring to Fig. 7, there is shown an additional embodiment, generally 70, of a preferred alternative adjustable wall jamb which has a body member 73 placed

walls 18 and 19. The body member 73 includes the side walls 75 and 76, as well as a base wall 77 to afford a channel 79 for a portion of the glass 15 to be positioned therein.

5 Flanges 81 and 82 extend from opposite sides of the body member 73 for purposes of permitting a nailing-in attachment through the flanges into the studs 71 and 72 behind the finish walls 18 and 19. Sealing fingers 83 extend from wall 75 to engage a panel wall in the same manner that fingers 57
10 engage wall 15 as shown in Fig. 2. In a like manner, a wedge 60 can be inserted in the opposing side.

Alternative embodiments are shown in Figs. 8 and 9 with the same or similar component part designated by the same numbers except with an "a" suffix. With respect to
15 embodiment 70a, this particular embodiment could be utilized for a corner installation with the flanges 81a and 82a nailed to a wall stud.

Embodiment 70b shown in Fig. 9 is for purposes of an angular installation. It is seen that the body member 73b
20 passes between the finish walls 18 and 19 at an oblique angle. This embodiment has a third additional flange 84b for nailing to wall stud 72.

The body members 73, 73a and 73b are extruded from the same vinyl plastics as previously described for seal 52 and
25 wedging member 60. The fingers such as 83 would all be formed from the flexible plastic and in a one-piece construction with the body members such as 73 which would be rigid. Seal 64 is coextruded in a similar manner except that portion 67 is flexible.

fact that compensation can be made when a wall is not plumb in that the wall panel 15 does not have to be inserted completely into a holding slot such as channel 50. Thus, it
5 can be situated in a "floating" but secured position. The flexible fingers allow the adjustment without scratching the panel 15.

Compensation can also made for any variations in the thickness of the finish walls such as 16-19 by the
10 adjustable telescoping of projecting portion 44 into the cavity 41 of the stud jamb 36. This is best seen in conjunction with Fig. 2 where the projecting portion 44 does not completely seat in the stud jamb 36.

The embodiments shown in Figs. 7, 8 and 9 afford a more
15 simplified unit and yet still afford the "floating channel" feature. While not shown in these views, and as indicated previously, the wedging member 60 would also be employed at the opposite side of the panel to that of the fingers such as 83.

20 Another important feature is the fact that the fingers 57 of the seal 52 (or the fingers such as 83 of the embodiment 70) permit slidable adjustment of the wall 15 in the respective channels 50 and 79 and prior to insertion of the wedge 60, while still permitting the wedge to be
25 inserted without harming panel 15.

Thus, the invention provides an improved adjustable wall jamb. While preferred embodiments have been described above, it should be readily apparent that those skilled in the art from this disclosure that a number of modifications

and scope of the invention.

For example, while the adjustable wall jamb 10 has been shown in conjunction with a particular sealing and wedging arrangement in the post 24, other suitable sealing devices could be employed. With respect to the embodiments shown in Fig. 9, fingers such as 83 have been shown in conjunction with one particular wall of the body member. If desired, they could be employed on the other wall which would be the "wet side". Also, the specific materials mentioned, are not the only materials which can be used. All such and other modifications within the spirit of the invention are meant to be within the scope thereof.

We claim:

1. An adjustable wall jamb for mounting a panel member comprising:

a first member adapted to be connected to a wall support and having a channel portion adapted for receiving
5 the panel;

a sealing member having resilient fingers adapted to be inserted between the panel and a first inside wall surface of the channel portion; and

a wedging member adapted for insertion between the
10 panel and a second inside wall surface of the channel portion opposite the first inside wall surface;

whereby when the jamb is assembled, the fingers can resiliently bias the panel towards the wedging member.

2. The adjustable wall jamb of claim 1, wherein the wedging member also includes resilient fingers and the first member and a room wall can sandwich a second channel member so as to permit an adjustment of the distance between the
5 first member and the wall.

3. The adjustable wall jamb of claim 2, wherein the first member is a metallic extrusion and the wedging and sealing members are extrusions of plastic flexible and rigid materials.

4. The adjustable wall jamb of claim 1, wherein the panel member is part of a shower enclosure.

comprising:

a body member defining a channel portion for reception of a section of a panel;

5 at least one flange member extending laterally from the body member; and

a plurality of resilient sealing fingers extending in transverse fashion into the channel portion, the flange member and sealing fingers being formed as one piece.

6. The combined wall jamb and seal device as defined in claim 5, wherein there are two such flange members extending laterally from the body member that are positioned at essentially a right angle with respect to the body member.

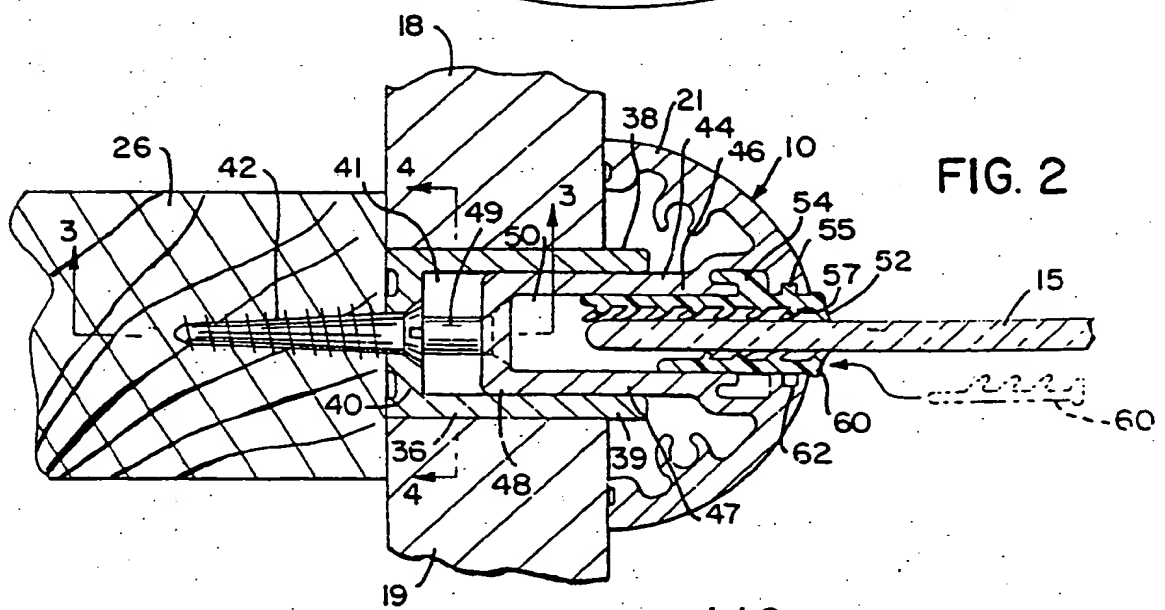
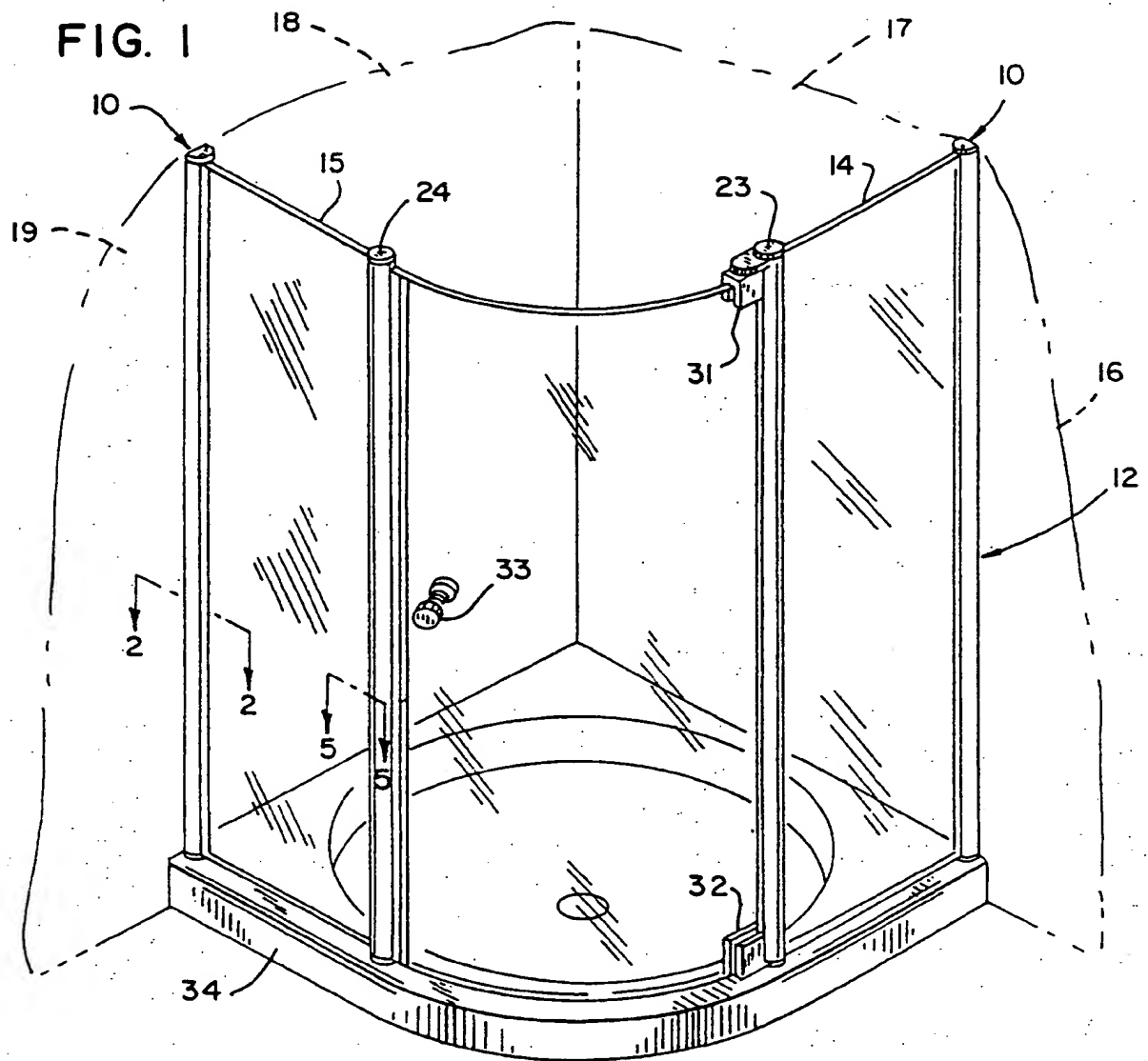
7. The combined wall jamb and seal device as defined in claim 5, wherein the body member is essentially U-shaped and there are two such flange members extending laterally therefrom and the flange members are positioned at a right angle with respect to each other.

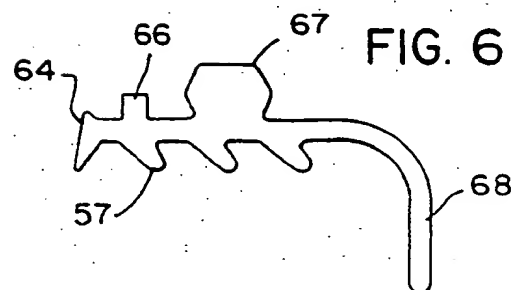
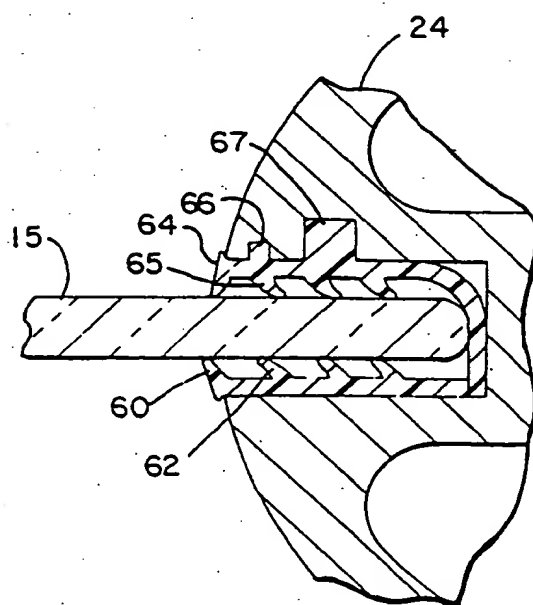
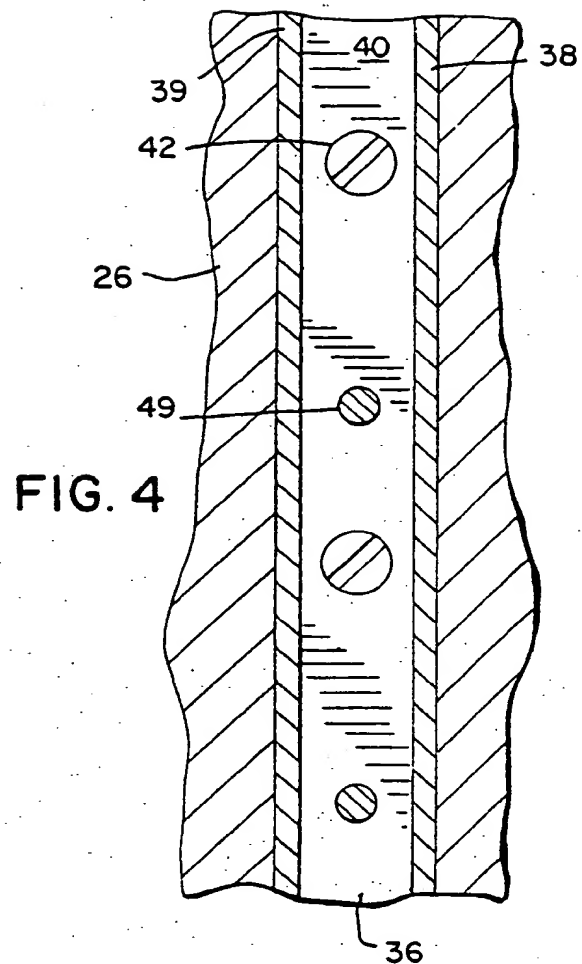
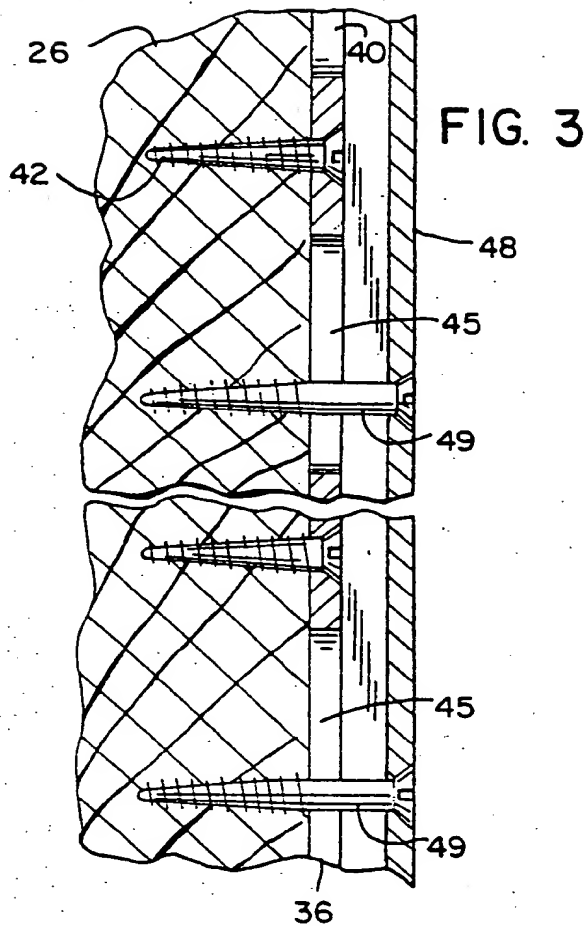
8. The combined wall jamb and seal device as defined in claim 5, wherein the body member is essentially U-shaped and there are three flange members extending from the body member, the three flange members all extending from the body member at angles other than a right angle.

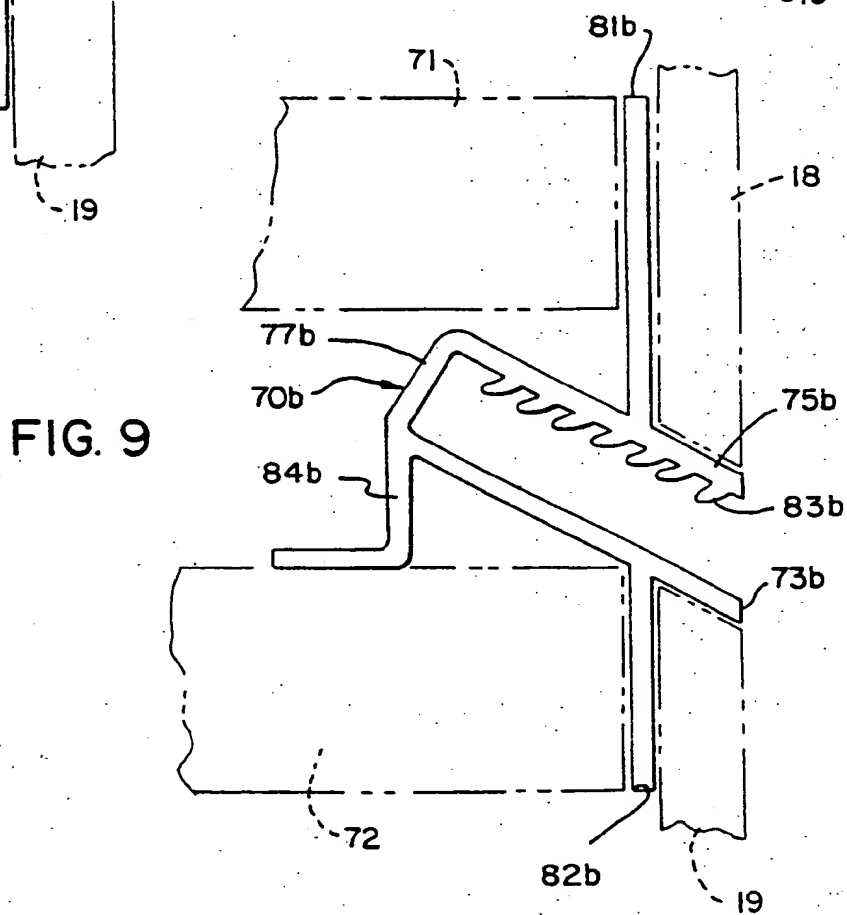
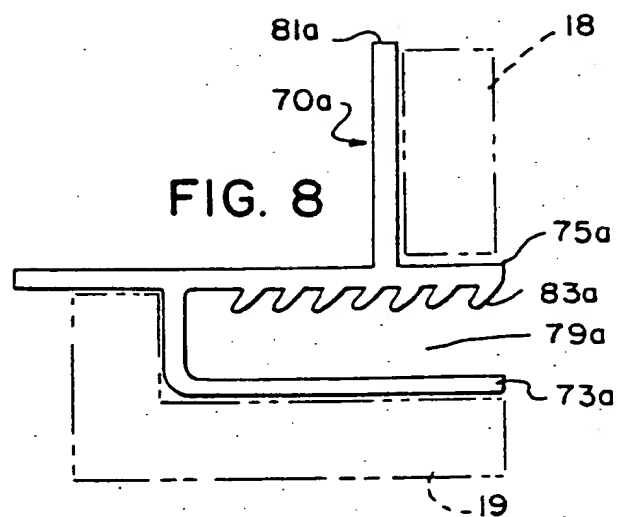
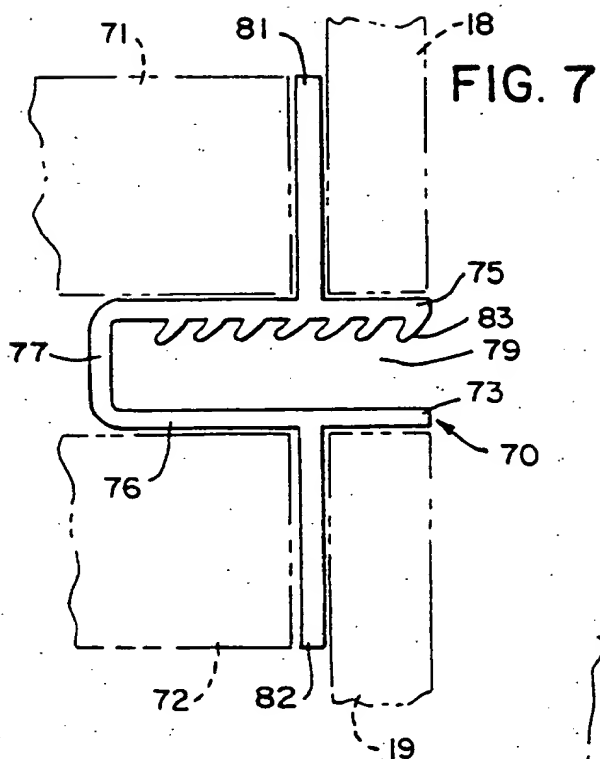
in claim 8, wherein two of the flange members are positioned opposite each other.

10. The combined wall jamb and seal device as defined in claim 5, further including an additional wedging and sealing member, having flexible fingers and adapted to be inserted between the panel and an inside wall surface of the channel portion opposite the sealing member.

11. The combined wall jamb and seal device of claim 5, wherein the panel member is a bathing fixture wall.







INTERNATIONAL SEARCH REPORT

International Application No

PC1/US 95/00749

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 A47K3/22 E06B3/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A47K E06B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE,C,41 19 628 (ALTURA LEIDEN HOLDING B.V.) 30 July 1992 see column 2, line 26 - line 67; figure 1	1,2
A	---	3-5
Y	US,A,4 537 002 (ELLINGSON) 27 August 1985 see column 2, line 23 - column 3, line 23; figure 3	1,2
A	---	3,5
A	FR,A,2 587 742 (LEDA S.A.) 27 March 1987 see abstract; figure 1	7
A	---	
A	US,A,4 453 346 (POWELL ET AL.) 12 June 1984 cited in the application -----	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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11 May 1995

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 95/00749

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE-C-4119628	30-07-92	NONE	
US-A-4537002	27-08-85	NONE	
FR-A-2587742	27-03-87	NONE	
US-A-4453346	12-06-84	CA-A- 1182343 GB-A, B 2120713	12-02-85 07-12-83

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